

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,951	01/12/2001	Yeo-hwan Yoon	5001-0012	9642

7590 07/27/2004

TONE-JUNELL HERBERT  
REED SMITH  
1301 K STREET, N.W.  
SUITE 1100- EAST TOWER  
WASHINGTON, DC 20005-3373

EXAMINER

HOLMES, MICHAEL B

ART UNIT	PAPER NUMBER
----------	--------------

2121

DATE MAILED: 07/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/758,951	<b>Applicant(s)</b> YOON ET AL.	
	<b>Examiner</b> Michael B. Holmes	<b>Art Unit</b> 2121	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE (3) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |



---

**UNITED STATES PATENT AND TRADEMARK OFFICE**

---

P.O. Box 1450, Alexandria, Virginia 22313-1450 - [WWW.USPTO.GOV](http://www.USPTO.GOV)

**Examiner's Detailed Office Action**

1. This office action is responsive to application **09/758,951**, filed **January 12, 2001**.
2. **Claims 1-18** have been examined.

**Claim Rejections - 35 USC § 102**

**(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.**

3. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
4. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by *Serbinis et al.* (USPN 6,314,425 B1).

Art Unit: 2121

Regarding claim 1: A method (C 4, L 66 to C 5, L 08) for supporting an establishment of a communication channel between a client computer capable of accessing an information storage medium which stores predetermined information contents and a connection information including medium identification data and a first remote server providing services related to the information contents through a open communication network (FIG. 1A & FIG. 1B), wherein said method comprises the steps of: (a) providing a second remote server comprising means for storing medium identification reference data required to be identical with the medium identification data; (FIG. 1A & FIG. 1B; C 4, L 5-23) (b) receiving a connection authentication request message including the medium identification data from the client computer through the open communication network; (FIG. 1A & FIG. 1B; C 5, L 31-51) and (c) when the medium identification data is same as the medium identification reference data, generating an access code and transmitting an encrypted access code to the client computer, so that the client computer tries to establish a connection to the first remote server using the access code and receive the services. (FIG. 4; item 91, C 9, L 63 to C 11, L 06)

Regarding claim 2: The method as claimed in claim 1, wherein said step (c) comprises the steps of: (c1) generating the access code; (C 10, L 20-43) (c2) encrypting the access code; (C 10, L 43-50) and (c3) transmitting an encrypted access code to the client computer through the open communication network. (C 10, L 51-61)

Regarding claim 3: The method as claimed in claim 2, further comprising the step of: (d) transmitting an authentication notifying message including the access code to the first remote

Art Unit: 2121

server, so that the first remote server provides the services to the client computer after verifying validity of the access code when the client computer requests a connection. (C 10, L 34-50)

Regarding claim 4: The method as claimed in claim 3, wherein, in said step (b), the connection authentication request message further includes an address of the client computer on the open communication network, wherein, in said step (d), the authentication notifying message further includes the address of the client computer, wherein the first remote server verifies validity of the access code as well as the validity of the address of the client computer when the client computer requests the connection. (C 9, L 47-52)

Regarding claim 5: The method as claimed in claim 3, wherein the authentication notifying message further includes time data for setting an expiration period of the access code, so that the first remote server invalidates the access code when the client computer does not request the connection within the expiration period. (FIG. 12B; C 9, L 33-45)

Regarding claim 6: The method as claimed in claim 2, wherein at least a portion of the connection authentication request message is encrypted according to a predetermined encryption algorithm, wherein said step (b) comprises a step of: decrypting the encrypted portion of the connection authentication request message. (C 10, L 34-50)

Regarding claim 7: The method as claimed in claim 6, wherein, in said step (b), the connection authentication request message further includes an address of the client computer on the open

Art Unit: 2121

communication network, wherein, in said step (d), the authentication notifying message further includes the address of the client computer, wherein the first remote server verifies validity of the access code as well as the address of the client computer when the client computer requests the connection. (C 7, L 24-35)

Regarding claim 8: The method as claimed in claim 1, wherein both the first and the second remote servers are implemented in a same physical server and assigned with the same network address with each other. (FIG. 1B; item 20A & 20B)

Regarding claim 9: The method as claimed in claim 8, wherein the access code includes a Cookie value transmitted from the second remote server to the client computer through a Cookie-setting field to be stored in the client computer. (*Examiner's note: cookie n. 1. a block of data that a server returns to a client in response to a request from a client.* Third Edition, Microsoft Press Computer Dictionary (1997) pg. 119, i.e., Cookies are well known in the art)

Regarding claim 10: A computer readable medium (C 5, L 21-30) storing a program for setting up a communication channel between a client computer and a first remote server through an open communication network (FIG. 1A & FIG. 1B) in a condition that the client computer can access an information storage medium storing predetermined information contents and a connection information including medium identification data and address data of a second remote server, said program carries out the functions of: (a) making a connection authentication

Art Unit: 2121

request message generated based on the connection information to be transmitted to the second remote server through the open communication network; (FIG. 1A & FIG. 1B; C 4, L 5-23)

(b) receiving and decoding a connection authentication message provided by the second remote server in response to the connection authentication request message to recover an access code assigned by the second remote server; (FIG. 1A & FIG. 1B; C 5, L 31-51) and (c) providing the access code to a predetermined client program operating in the client computer so that the client program tries to establish a connection to the first remote server using the access code and receive services related to the information contents from the first remote server. (FIG. 4; item 91, C 9, L 63 to C 11, L 06)

Regarding claim 11: The computer readable medium as claimed in claim 10, wherein the computer readable medium is the same as the information storage medium, and thus the information contents, the connection information, and the program are stored in a single medium. (FIG. 1A & FIG. 1B; C 5, L 21-30)

Regarding claim 12: The computer readable medium as claimed in claim 10, wherein said function (a) comprises the functions of; (a1) reading out the medium identification data and the address data of the second remote server from the information storage medium; (C 6, L 66 to C 7, L 09) and (a2) providing the client program with the medium identification data and the address data of the second remote server, so that the client program generates the connection authentication request message using the medium identification data and transmits the connection authentication request message to the second remote server. (C 5, L 21-30 &



Art Unit: 2121

C 6, L 66 to C 7, L 09)

Regarding claim 13: The computer readable medium as claimed in claim 12, wherein said function (a2) comprises the functions of: (a2a) encrypting the medium identification data; (C 10, L 43-50) and (a2b) providing the client program with an encrypted medium identification data and the address data of the second remote server. (C 10, L 51-61)

Regarding claim 14: The computer readable medium as claimed in claim 10, wherein said function (a) comprises the functions of: (a1) reading out the medium identification data and the address data of the second remote server from the information storage medium; (C 6, L 66 to C 7, L 09) and (a2) generating the connection authentication request message using the medium identification data; (C 10, L 51-61) and (a3) making the connection authentication request message to be transmitted to the second remote server. (C 10, L 51-61)

Regarding claim 15: The computer readable medium as claimed in claim 14, wherein said function (a2) comprises the function of: encrypting at least a portion, including the medium identification data, of the connection authentication request message. (C 10, L 33-50)

Regarding claim 16: The computer readable medium as claimed in claim 14, wherein said function (a3) comprises the function of: transferring the connection authentication request message to the client program, so that the client program transmits the connection authentication request message to the second remote server. (C 5, L 21-31)

Art Unit: 2121

Regarding claim 17: The computer readable medium as claimed in claim 14, wherein said function (a3) comprises the function of: directly transmitting, without an intervention of the client program, the connection authentication request message to the second remote server.  
(C 6, L 66 to C 7, L 09)

Regarding claim 18: The computer readable medium as claimed in claim 10 wherein, in said function (a), the connection authentication request message further includes an address of the client computer on the open communication network. (C 7, L 24-35)

## Conclusion

5. The prior art made of record and (listed of form **PTO-892**) not relied upon is considered pertinent to applicant's disclosure as follows. Applicant or applicant's representative is respectfully reminded that in process of patent prosecution i.e., amending of claims in response to a rejection of claims set forth by the Examiner per Title 35 U.S.C. The patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and any objections made. Moreover, applicant or applicant's representative must clearly show how the amendments avoid or overcome such references and objections. *See* **37 CFR § 1.111(c)**.

Art Unit: 2121

## Correspondence Information

6. Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Michael B. Holmes** who may be reached via telephone at **(703) 308-6280**. The examiner can normally be reached Monday through Friday between 8:00 a.m. and 5:00 p.m. eastern standard time.

If you need to send the Examiner, a facsimile transmission regarding After Final issues, please send it to **(703) 746-7238**. If you need to send an Official facsimile transmission, please send it to **(703) 746-7239**. If you would like to send a Non-Official (draft) facsimile transmission the fax is **(703) 746-7240**. If any attempts to reach the examiner by telephone are unsuccessful, the **Examiner's Supervisor, Anthony Knight**, may be reached at **(703) 308-3179**.

Any response to this office action should be mailed too:

**Director of Patents and Trademarks Washington, D.C. 20231**. Hand-delivered responses should be delivered to the Receptionist, located on the fourth floor of **Crystal Park II, 2121 Crystal Drive Arlington, Virginia**.

***Michael B. Holmes***  
Patent Examiner  
Artificial Intelligence  
Art Unit 2121  
United States Department of Commerce  
Patent & Trademark Office

*Ramesh Patel*  
**RAMESH PATEL**  
**PRIMARY EXAMINER** 7/26/04  
*For Anthony Knight*